

# PARCC Assessment Administration & Technology Guidance

# Agenda

Welcome	Cody Decker
PARCC Assessments	Melody Morgan
PARCC Planning Tool	Melody Morgan
Technology Readiness Tool (TRT)	Sarah Cox
Technology Guidance	Holly Glover
Questions & Contact Information	All

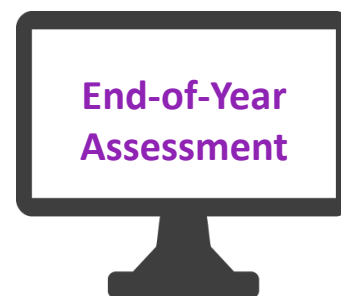


# Webinar Focus

- The design of PARCC's English Language Arts/Literacy and Mathematics summative assessments
- The number of testing sessions and approximate testing time
- The number of days over which schools may administer the assessments (testing window)
- A general “rule of thumb” guidance for the number of computer devices needed to administer the assessments
- A new tool designed to assist local policy makers and educators build the technology capacity they need to administer PARCC's computer-based assessments in 2014-15

# PARCC Assessment Design

## Summative Assessments



- After 75 percent of the school year
- Extended tasks, applications of concepts and skills
  - **ELA/Literacy:** Writing effectively when analyzing text, research simulation
  - **Math:** Solving multi-step problems requiring abstract reasoning, precision, perseverance and strategic use of tools
  - **ELA/Literacy** Grades 3-11
  - **Math** Grades 3-8, Algebra I, Geometry, and Algebra II

- After 90 percent of the school year
- Innovative, short-answer items
  - **ELA/Literacy:** Reading comprehension
  - **Math:** Short items that address both concepts and skills
  - **ELA/Literacy** Grades 3-11
  - **Math** Grades 3-8, Algebra I, Geometry, and Algebra II



# Number of Testing Sessions

## Summative Assessments



Three (3) Sessions ELA /Literacy

+

Two (2) Mathematics Sessions

Two (2) Sessions ELA /Literacy

+

Two (2) Mathematics Sessions



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# Estimated Time on Task by Grade and Session

		Performance-Based Component						End-of-Year Component					Summative Total
		ELA/Literacy			Math		Total	ELA/Literacy		Math		Total	
Grade		Literary Analysis	Research	Narrative	Session 1	Session 2		Session 1	Session 2	Session 1	Session 2		
3	Estimated Time on Task (minutes)	50	60	40	50	50	250	60	60	55	55	230	8 hours

		Performance-Based Component						End-of-Year Component					Summative Total
Grades		ELA/Literacy			Math		Total	ELA/Literacy		Math		Total	
		Literary Analysis	Research	Narrative	Session 1	Session 2		Session 1	Session 2	Session 1	Session 2		
4-5	Estimated Time on Task (minutes)	80	80	50	50	50	310	70	70	55	55	250	9 hours, 20 minutes

		Performance-Based Component						End-of-Year Component					Summative Total
Grades		ELA/Literacy			Math		Total	ELA/Literacy		Math		Total	
		Literary Analysis	Research	Narrative	Session 1	Session 2		Session 1	Session 2	Session 1	Session 2		
6-8	Estimated Time on Task (minutes)	80	85	50	50	50	315	70	70	55	55	250	9 hours, 25 minutes

*Note: Estimated time on task refers to an estimate of the amount of time the typical student will need to complete each session. While it is anticipated that most students will complete the test sessions within these estimated times, all participating students will have a set amount of additional time for each session to provide them with ample time to demonstrate their knowledge.*



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# Estimated Time on Task by Grade and Session

		Performance-Based Component						End-of-Year Component					Summative Total
		ELA/Literacy			Math		Total	ELA/Literacy		Math		Total	
Grades		Literary Analysis	Research	Narrative	Session 1	Session 2		Session 1	Session 2	Session 1	Session 2		
9 -10 Alg I/ Math I Geo/ Math II	Estimated Time on Task (minutes)	80	85	50	50	50		315	70	70	65		
													9 hours, 45 minutes

		Performance-Based Component						End-of-Year Component					Summative Total
		ELA/Literacy			Math		Total	ELA/Literacy		Math		Total	
Grade		Literary Analysis	Research	Narrative	Session 1	Session 2		Session 1	Session 2	Session 1	Session 2		
11 Alg II / Math III	Estimated Time on Task (minutes)	80	85	50	65	65	345	70	70	55	55	250	9 hours, 55 minutes

*Note: Estimated time on task refers to an estimate of the amount of time the typical student will need to complete each session. While it is anticipated that most students will complete the test sessions within these estimated times, all participating students will have a set amount of additional time for each session to provide them with ample time to demonstrate their knowledge.*



# Testing Window

- Each 20 day window is provided primarily to plan ample opportunity to administer the assessments via computer in schools with:
  - Limited number of devices
  - Limited bandwidth
- Schools will have a maximum of 20 days to administer each assessment component:
  - Performance Based Assessment (PBA) component
  - End of Year Assessment (EOY) component
- Schools could complete administration of the tests in fewer days if they have sufficient capacity to administer assessments to large numbers of students simultaneously



# Device Guidance & Planning

- The overarching goal is to serve and support
  - High quality student instruction
  - Teacher professional development
  - School community communications *and*
  - Next Generation Assessments
- PARCC Minimum and Recommended Technology Guidelines:

<http://www.parcconline/technology>



# Device Guidance & Planning

The number of devices a school needs for assessment is largely dependent on:

- 1) The number of students enrolled at each tested grade level;
- 2) The number of students that can be tested simultaneously given the way in which available devices are deployed (e.g. in labs, in classrooms, on carts, etc.); and
- 3) The available bandwidth capacity

# “Rule of Thumb” Guidance

School type	<u>Minimum</u> number of devices	<u>Recommended</u> number of devices
For a school with three tested grades (K-5, 6-8, 9-12)	One device for every two students in the largest tested grade	One device per student for the largest tested grade
For a school with six tested grades (K-8)	One device per student for the largest tested grade	One device per student for the two largest tested grades

- These are general assessment planning guidelines. Districts may wish to recommend lower student to device ratios to ensure that schools can continue with computer-based instruction at the same time as they are conducting computer-based assessments.
- The expectation is that all students will take the PARCC assessments online.
- The PARCC assessments will be available in paper and pencil format for students with disabilities who have an Individualized Education Plans which requires this accommodation.



# PARCC Assessment Administration Capacity Planning Tool

- The Assessment Administration Capacity Planning tool is simply an electronic spreadsheet that allows schools to evaluate the extent to which their **current** computer inventory and bandwidth is sufficient to administer PARCC's computer-based assessments, as well as model what they could do with increased capacity
- The tool and accompanying users' guide can be found:  
<http://www.parcconline.org/assessment-administration-guidance>

# PARCC Assessment Administration Capacity Planning Tool

The following **school-level** information will need to be entered in the Planning Tool:

- 1) The number of students in each tested grade:
- 2) The number of computers available for testing that meet PARCC's minimum technology specifications;\*
- 3) Bandwidth availability;
- 4) Estimates for instructional and office uses of bandwidth that will be taking place during assessment sessions; and
- 5) The number of assessment administration days to use as a target for the calculated models.

\* Data derived from the Technology Readiness Tool that meet minimum technology specifications.

# PARCC Assessment Administration Capacity Planning Tool

- Assumptions Used by the Tool:
  - Each individual student will not take more than one session per day
  - The default minimum testing window is 5 schools days for the Performance Based Assessment (PBA) components and 5 school days for the End of Year Assessment (EOY) components
  - The tool uses bandwidth levels that are at the high end of industry averages for technology and media rich online assessments – a maximum bandwidth demand of 100 kbps for online administration where students maintain an active connection to the Internet throughout the test and 30 kbps for administration of tests using caching approaches (browser or proctor caching) that have much lower per student bandwidth demands
  - The final bandwidth requirements for PARCC assessments have not yet been determined, and are dependent of PARCC's development of next generation assessment items and the technology platform to deliver them. PARCC anticipates the release of final bandwidth requirements by October 2013.



# PARCC Assessment Administration Capacity Planning Tool



## SMALL ELEMENTARY SCHOOL EXAMPLE




Partnership for Assessment of Readiness for College and Careers (PARCC)

### Assessment Capacity Planning Tool

Release Version 1: March 5, 2013

This tool is continually being updated and improved. Please visit <http://www.parcconline.org/assessment-administration-guidance> for the most current versions of the Capacity Planning Tool and related information.

**PLEASE NOTE:** This document is for planning purposes only, to provide estimated values of high level assessment capacity calculations. The estimated specifications and other assumptions used in this tool are subject to change.

	Input fields to be completed by school
	Background data values and/or interim calculations
	Calculated capacity planning data

Please refer to the [Assumptions Tab](#) and the Users' Guide to the Assessment Administration Capacity Planning Tool for more information and assistance in using and interpreting the Planning Tool.



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# PARCC Assessment Administration Capacity Planning Tool

## ENTER YOUR SCHOOL DATA

### STUDENTS

Enter Student Population Estimates for the 2014-2015 School Year:

Grade	Total population
3	122
4	118
5	120
6	124
7	
8	
9	
10	
11	
<b>TOTAL</b>	<b>484</b>

### DEVICES

Enter the number of computer devices available for assessment that meet  
PARCC Minimum Technology Specifications:

(For assistance in calculating eligible devices, please use the separate PARCC-SBAC Technology Readiness  
Tool and PARCC Technology Guidelines)

Devices available for assessment that meet PARCC minimum specifications- By Location	
Computers that can be used simultaneously in classrooms or are on computer carts	36
Computers that can be used simultaneously in computer labs	15
<b>TOTAL</b>	<b>51</b>



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# PARCC Assessment Administration Capacity Planning Tool

NUMBER OF ADMINISTRATION DAYS	Enter your preferred number of administration days to be used in calculating planning models (PARCC maximum = 20 days, PARCC minimum = 5 days. States or districts may set different requirements.)			
	<table border="1"><thead><tr><th>Enter your preferred number of administration days</th></tr></thead><tbody><tr><td>Run calculations using the PARCC estimate of a 20-day maximum OR Use a different number of administration days (for example, states or districts may establish different requirements)</td></tr><tr><td>20</td></tr></tbody></table>	Enter your preferred number of administration days	Run calculations using the PARCC estimate of a 20-day maximum OR Use a different number of administration days (for example, states or districts may establish different requirements)	20
Enter your preferred number of administration days				
Run calculations using the PARCC estimate of a 20-day maximum OR Use a different number of administration days (for example, states or districts may establish different requirements)				
20				

BANDWIDTH	Enter information about the school's average connection speed to the Internet (total kbps as reported by your Internet Service Provider or district technology office): (PARCC encourages schools to run a trusted speed test tool to generate this estimate. More information is provided in the Capacity Planning Tool Users' Guide. Alternately, schools may use as an estimate the connectivity as reported by your Internet Service Provider or district technology office):				
	<table border="1"><thead><tr><th>Internal Connection Speed (kbps)</th><th>External Connection Speed (kbps)</th></tr></thead><tbody><tr><td>100000</td><td>100000</td></tr></tbody></table>	Internal Connection Speed (kbps)	External Connection Speed (kbps)	100000	100000
Internal Connection Speed (kbps)	External Connection Speed (kbps)				
100000	100000				



# PARCC Assessment Administration Capacity Planning Tool

Type of Use	Number of simultaneous users (students, teachers, administrators) engaged in activity	Average bandwidth demand in Kbps (for reference)	Bandwidth In Use
Email	5	500	2500
Web Browsing		500	0
Online Learning (not interactive)		250	0
Online Learning (interactive/single player)		1000	0
Audio Streaming		100	0
Student Content Creation	90	150	13500
Accessing School/District Portal	5	250	1250
Video Streaming (standard quality)		700	0
Video Streaming (high-definition)		4000	0
Video Conferencing (standard quality)		1000	0
Video Conferencing (high-definition)		4000	0
VoIP		500	0
TOTAL			17250

Note: Average bandwidth demands of common school technology activities derived from those used by the State Educational Technology Directors Association in their 2012 report *The Broadband Imperative*, as well as SETDA's original source -- the School 2.0 Bandwidth Calculator ([http://etoolkit.org/etoolkit/bandwidth\\_calculator](http://etoolkit.org/etoolkit/bandwidth_calculator)).



# CALCULATED PLANNING MODELS

## DEVICE TO STUDENT RATIO MODELS

Calculations are based on the school population and the assessment design, using an estimate of 2 testing blocks per day.

			PARCC RULE OF THUMB:							
			Students per device based on data entered by the school		At the largest grade level: 2 students per device		At the largest grade level: 1 student per device		1 Student per device for all tested students	
					(Recommended for schools with one, two, or three tested grades)		(Recommended for schools with more than three tested grade levels)			
			Performance-Based Assessment	End Of Year Assessment	Performance-Based Assessment	End Of Year Assessment	Performance-Based Assessment	End Of Year Assessment	Performance-Based Assessment	End Of Year Assessment
Devices	Students per device for all tested grades		50	50	8	8	4	4	1	1
	Estimated Devices Needed for This Model				62	62	124	124	484	484
	Reported Available		51	51	51	51	51	51	51	51
	Additional Devices Needed to Meet Target Ratio				11	11	73	73	433	433
Bandwidth	Maximum Estimated Need (Administered Online): Bandwidth per Test Block at Target Device Capacity (in Mbps)		5100	5100	6200	6200	12400	12400	48400	48400
	Minimum Estimated Need (Administered with Caching): Bandwidth per Test Block at Target Device Capacity (in Mbps)		1530	1530	1860	1860	3720	3720	14520	14520
	Current Availability: Bandwidth per Test Block (in Mbps)		82750	82750	82750	82750	82750	82750	82750	82750
	Additional Bandwidth Needed to Meet Target Device Capacity (Administered Online)		No Gap	No Gap	No Gap	No Gap	No Gap	No Gap	No Gap	No Gap
	Additional Bandwidth Needed to Meet Target Device Capacity (Administered Using Caching)		No Gap	No Gap	No Gap	No Gap	No Gap	No Gap	No Gap	No Gap
Assessment Administration Days	Days Required by this model		24	19	20	16	10	8	PARCC 5-Day Minimum	PARCC 5-Day Minimum
	Reported Available		20	20	20	20	20	20	20	20
	Capacity Gap in Days		4	No Gap	0	No Gap	No Gap	No Gap	No Gap	No Gap

Assumptions Small Elementary Example Large High School Example



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C	D	E	F	G	H	I	J	K
		<b>PARCC RULE OF THUMB:</b>						
		Students per device based on data entered by the school		At the largest grade level: 2 students per device		At the largest grade level: 1 student per device		1 Student
				(Recommended for schools with one, two, or three tested grades)		(Recommended for schools with more than three tested grade levels)		
		Performance-Based Assessment	End Of Year Assessment	Performance-Based Assessment	End Of Year Assessment	Performance-Based Assessment	End Of Year Assessment	Performance-Based Assessment
Devices	Students per device for all tested grades	10	10	8	8	4	4	
	Estimated Devices Needed for This Model			62	62	124	124	
	Reported Available	51	51	51	51	51	51	
	Additional Devices Needed to Meet Target Ratio			11	11	73	73	
Bandwidth	Maximum Estimated Need (Administered Online): Bandwidth per Test Block at Target Device Capacity (in kbps)	5100	5100	6200	6200	12400	12400	



Calculations are based on the school population and the assessment design, using an estimate of 2 testing blocks per day.

[illegible][illegible]

Assumptions Small Elementary Example Large High School Example



# Review

- What are the PARCC summative assessment timelines?
- Which grades and subjects will be tested with computer-based PARCC assessments?
- What will PARCC test administration look like?
- Will my current technology be adequate to administer the test?
- How many devices will be needed to assess my students?
- How do I determine if I have gaps in device inventory to administer the PARCC assessment?
- How much bandwidth is recommended for the PARCC assessments?

# Contact Information

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Director of Student Assessment

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[melody.morgan@arkansas.gov](mailto:melody.morgan@arkansas.gov)



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# TechReadinessTool

<https://www.techreadiness.net>



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# Overview

**The Technology Readiness Tool is a web-based application designed to:**

- (a) help schools and districts identify their current technology infrastructure and
- (b) assist the states and consortia in determining what next steps will best prepare schools and districts for a successful transition to online testing.

**The Technology Readiness Tool assesses current capacity and compares that to the technology that will be needed to administer the new online assessments in four areas:**

1. Computers & other devices
2. Ratio of devices to test-takers
3. Network and infrastructure
4. Personnel (staffing & training)



# Accessing the Tool

<https://www.techreadiness.net>



TechReadinessTool

## Sign In

Username

Password

[Retrieve Username](#) | [Reset Password](#) | [Request Account](#)

Sign In

[Help & Resources](#)



Partnership for Assessment of  
Readiness for College and Careers



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PEARSON



## Support Information

On-page Help (question mark icon located in upper right corner of screen)

[District Admin Quick Start Guide](#) - Added 05/28/12

[District / School Quick Start Guide](#) - Added 05/28/12

Home

Setup ▾

Results &amp; Indicators

## Notifications

## Posted 02/14/13

- The following enhancements have been made to the Technology Readiness Tool:
  - Implemented State Wide export feature of School Detail for Device Indicator, Device to Test-Taker Indicator and Network Indicator Reports
  - Added Understanding & Interpreting Reports Guide
  - Updated User's Guide
  - Updated Training Modules
  - Updated Device and School Survey file layouts

## Posted 01/14/13

- Next anticipated snapshot of data will be taken on **Friday, 02/15/13**. Please continue to make updates as appropriate.
- The following enhancements have been made to the Technology Readiness Tool:
  - Improved Home Page layout
  - New Setup Menu structure, separating School Readiness Survey Questions and Mark Data Entry Complete from Organization Management
  - Updated Device file layout, including additional options for Operating System and Memory
  - Modified Network Indicator Report, which better represents network readiness
  - New School Exception Report, allowing users to easily identify data anomalies
  - Updated User's Guide and training modules to provide guidance for the enhancements listed above

Added 01/25/13

## File Layouts and Templates

Organization file [Layout / Template](#) - Updated 09/19/12

User file [Layout / Template](#) - Updated 09/19/12

Device file [Layout / Template](#) - Updated 02/14/13

School Survey file [Layout / Template](#) - Updated 02/14/13

) for your specific state.





Home

Setup ▾

Results &amp; Indicators ▾

## Organization Management

## 1 Find

Manage Filters ▾ Clear

Full Text

Search

Search All Organizations

More ▾

## 2 Organizations (0)

## 3 Tasks

☒ New Organizations☐ Edit Contacts☐ Edit Organizations☐ Delete Organizations

Start Tasks

Organization Import/Export

## 1. New Organizations

Parent Organization

Organization Type\*

Readiness ▾

Code\* ⓘ

Name\*

Local Code\* ⓘ

Inactive ☐

Address Line 1\*

Address Line 2

City\*

State\* ▾

Zip Code\*

Phone #\*

Phone Extension

Fax #

## File Layouts and Templates

Organization file [Layout / Template](#) - Updated 09/19/12User file [Layout / Template](#) - Updated 09/19/12Device file [Layout / Template](#) - Updated 02/14/13School Survey file [Layout / Template](#) - Updated 02/14/13



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## 3 Tasks

- ☐ New Users
- ☐ Enable/Disable Users
- ☒ Role Assignment
- ☐ Delete/Undelete Users

- ☒ Edit Users
- ☒ Organization Assignment
- ☐ Password Reset

Start Tasks

User Import/Export

Clear

More ▾

## 3 Tasks

- ☐ New Users
- ☐ Enable/Disable Users
- ☐ Role Assignment
- ☐ Delete/Undelete Users

- ☐ Edit Users
- ☐ Organization Assignment
- ☐ Password Reset

Start Tasks

User Import/Export

1. Edit Users

2. Organization Assignment

3. Role Assignment

1. Edit Users

2. Organization Assignment

3. Role Assignment

Selected Users

Details

Organizations

Add ▾

Last Name  
E  
Active Begin  
Active End  
Disable  
Disable R  
Delete

1. Edit Users

2. Organization Assignment

3. Role Assignment

Role

Add ▾

× District (district)



Devices\_File\_Layout-1.xls [Read-Only] [Compatibility Mode] - Microsoft Excel

Device\_File\_Template\_01082013.xls [Read-Only] [Compatibility Mode] - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View

File Home Insert Page Layout Formulas Data Review View

Clipboard Font Alignment Number Styles Cells Editing

Q1

Validations are no longer available for Operating System as there are too many values for Excel to display.

	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1		Location	Operating System	Processor	Memory	Screen Resolution	Monitor/Display Size	Browser	Wireless	Device Type	Assessment Environment	Device Owner									
2	Lab 2	windows	2500	2048	30	20	30	TRUE	desktop	appropriat	school										
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27																					
28																					

Layout Sample Record

Ready

Save your file as .csv before importing.

« Previous Task Reset Process File Next Task » Exit

1. School Readiness Survey  
Questions
[« Previous Task](#)
[Reset](#)
[Save](#)
[Next Task »](#)
[Exit](#)

## Organization Details

## School Information

Classification of School

Grade K Enrollment Count

Grade 1 Enrollment Count

Grade 2 Enrollment Count

Grade 3 Enrollment Count

Grade 4 Enrollment Count

Grade 5 Enrollment Count

Grade 6 Enrollment Count

Grade 7 Enrollment Count

Grade 8 Enrollment Count

Grade 9 Enrollment Count

Grade 10 Enrollment Count

Grade 11 Enrollment Count

Grade 12 Enrollment Count

## Network Information (Estimated)

Internet Bandwidth 50 Mbps

Internet Bandwidth Utilization (%) 60

Internal Network Bandwidth 1 Gbps - Gigabit Ethernet

Internal Network Bandwidth Utilization (%) 50

Wireless Access Points Count 21

## Testing Information

Max # of Simultaneous Test-Takers 115

Testing Window (# school days) 5

Sessions per Day 2

## Staff / Personnel Issues &amp; Roadblocks

Why is this information needed?

The information derived from this survey will assist the consortia and individual states in understanding the 'readiness' of each district and school(s) from a staff and personnel standpoint. **Please take the survey once for each school in the district or allow one person in each school to take the survey.**

Who should answer these survey questions?

The following questions should be answered by a person at the district level (once for each school) or the school level, who has knowledge or the knowledge and capabilities of the staff and personnel responsible for installing, configuring, and using technology to administer student tests.

How to answer these survey questions?

Please rank the following items from 0-10 in regards to level of concern; 0 being of no concern and 10 being of extreme concern. If you are uncertain whether or not it will be a roadblock for your school, please answer Don't Know.

## Test Administrators

1. Having a sufficient number of test administrators to support online testing. 7
2. Test administrators having sufficient technical understanding to support online testing. 7
3. Providing all appropriate training needed for test administrators. 7

## Technology Support Staff

4. Having a sufficient number of technology support staff to support online testing. 8
5. Technology support staff having sufficient technical understanding to support online testing. 5
6. Providing all appropriate training needed for technology support staff. 5



# Complete



## TechReadinessTool

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Administrative

The move

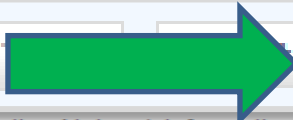


## TechReadinessTool

### 1. Mark Data Entry Complete

Organization

« Previous



Save

Next Task »

Exit

Testing Network Information and Survey Questions?

Last updated by [redacted] on 2/13/13 at 10:32:21 PM CT

Display 10 ▾ | Manage Columns ▾

Code	Name	Data Entry Complete	Organization Type	Parent Organization
<input type="checkbox"/>				
<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>				

Impersonate Experience



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Home

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Results &amp; Indicators ▾

Mark Data Entry C

1 Find

Manage

Full Text

Search All Organizations

Reports &amp; Progress Reports are updated nightly

## Reports

## Device Indicators

Results show the percentage of devices that meet requirements

## Device to Test-Taker Indicators

Results show the percentage of students who can be tested with available devices in the available time



Home

Setup ▾

Results &amp; Indicators ▾



Arkansas

## Device Indicators

Reports are updated nightly

Data as of March 21, 2013 at 03:00 AM CT

**Arkansas (AR) - 84% of Devices Meet the Minimum Requirements**Requirements 

Minimum / Recommended Requirements 🔍

Print to .pdf

## Meeting Requirements

- TBD 🔍
- 0%-25%
- 26%-50%
- 51%-75%
- 76%-100%

Export to .csv

Export All Schools Detail to .csv

Results 1 - 10 of 258 | Display 10 ▾

☐ AR-402000☐ AR-403000

Snapshot window.

## Progress Report - Device to Test-Taker Indicators


Results show the percentage of students who can be tested with available devices in the available time for each Snapshot Window.

## Progress Report - Network Indicators

Results show the percentage of bandwidth currently available to test the maximum number of simultaneous test-takers for each Snapshot Window.




# Device Indicators


**TechReadinessTool**

[Home](#)
[Setup](#)
[Results & Indicators](#)

[PARCC](#) > [Arkansas](#)



## Device Indicators

Reports are updated nightly

Data as of March 21, 2013 at 03:00 AM CT


■ **Arkansas (AR) - 49% of Devices Meet the**

[Print to .pdf](#)

Meeting Requirements


TBD

[Sarah Cox](#)
[Answer Center](#)
[Your Account](#)
[Sign Out](#)


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[PARCC](#) > [Arkansas](#)



Arkansas

## Device Indicators

Reports are updated nightly

Data as of March 21, 2013 at 03:00 AM CT

■ **100% of Devices Meet the Minimum Requirements**

[Print to .pdf](#)

TBD

Requirements Not Met

Requirements Minimum

Minimum / Recommended Requirements

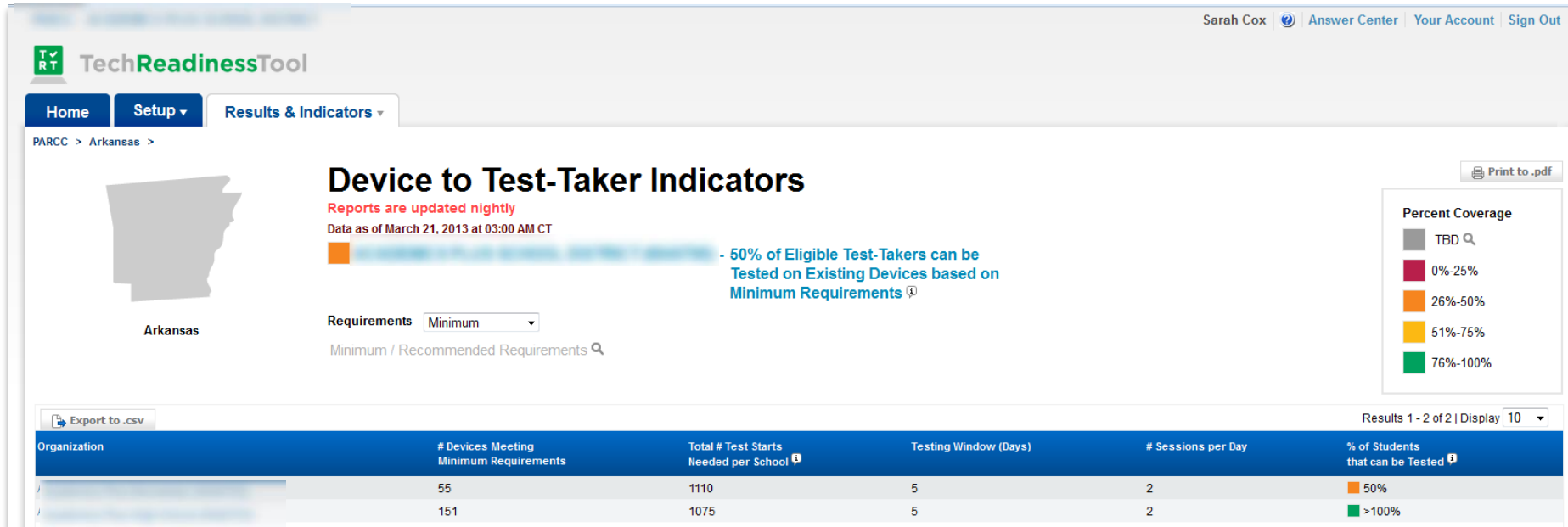
[Export to .csv](#)

Results 1 - 2 of 2 | Display 10

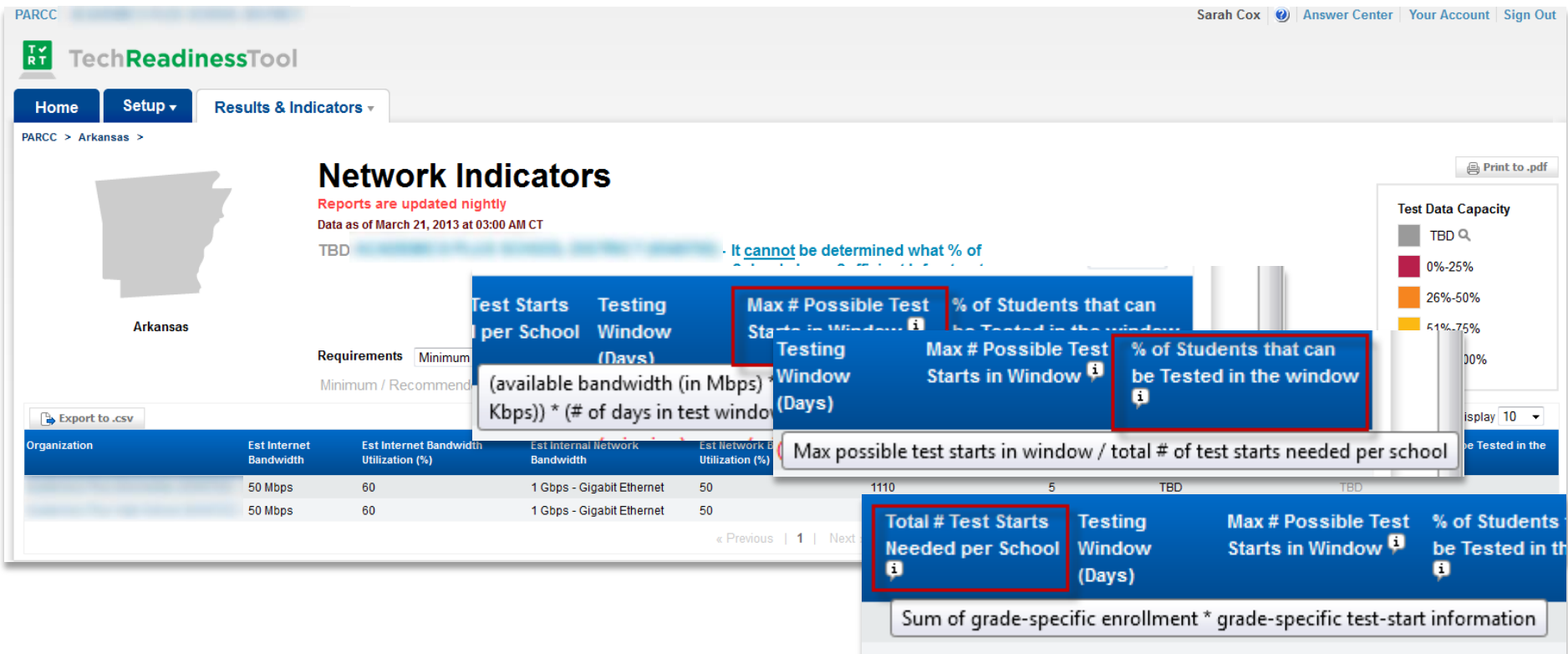
Name	# of Devices	Operating System	Memory	Monitor / Display Size	Screen Resolution	Environment
	30	Windows 7	4 GB	13-16.9 in	1366 x 768	Current environment appropriate for assessment
	25	Windows 7	4 GB	13-16.9 in	1366 x 768	Current environment appropriate for assessment

[« Previous](#) | [1](#) | [Next »](#)

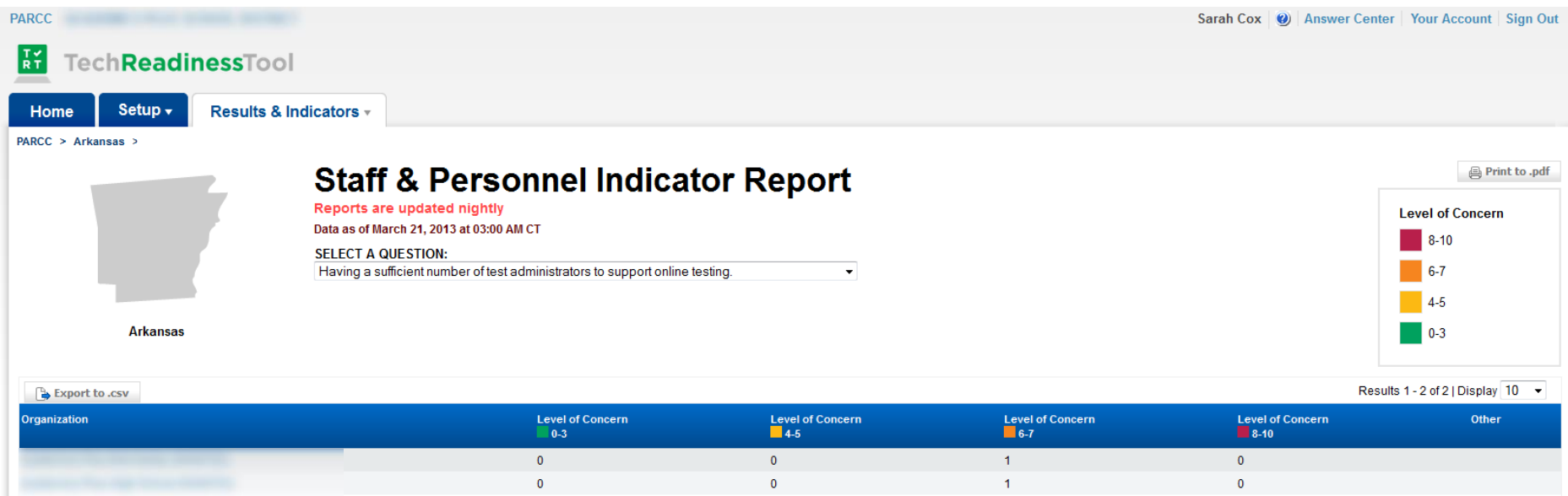
# Device to Test-Taker Indicators



# Network Indicators



# Staff & Personnel Indicator Report



# School Exception Report

PARCC | [Your Account](#) | [Sign Out](#)

**TechReadinessTool**

[Home](#) | [Setup](#) | [Results & Indicators](#)

PARCC > Arkansas >

## School Exception Report

Reports are updated nightly

Data as of March 21, 2013 at 03:00 AM CT

SELECT A REPORT:  
Not Complete

Exception Report Types

Export to .csv | Export with Survey Data to .csv | Export Device Data to .csv

Results 1 - 1 of 1 | Display 10

Organization	Parent Organization	Data Entry Complete	Total Device Count	Number of Test-Takers	Device to Test-Taker Ratio	Number of Unanswered Survey Questions
		No	176	1075	0	0

### SELECT A REPORT:

Not Complete

Not Complete

No Device Entry

No Activity

Potentially Missed Survey Questions

Potentially Missed Device Entry

Potentially Complete

Potentially Not Complete



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# Submission Status Report

PARCC

Sarah Cox | Answer Center | Your Account | Sign Out

TVRT


TechReadinessTool

Home

Setup

Results & Indicators

PARCC > Arkansas >



Arkansas

## Submission Status Report

Reports are updated nightly  
Data as of March 21, 2013 at 03:00 AM CT

- 50% of Schools in the District have Indicated Data are Submitted and Ready for Review and Verification

Print to .pdf

Submitted

Yes

No

Export to .csv

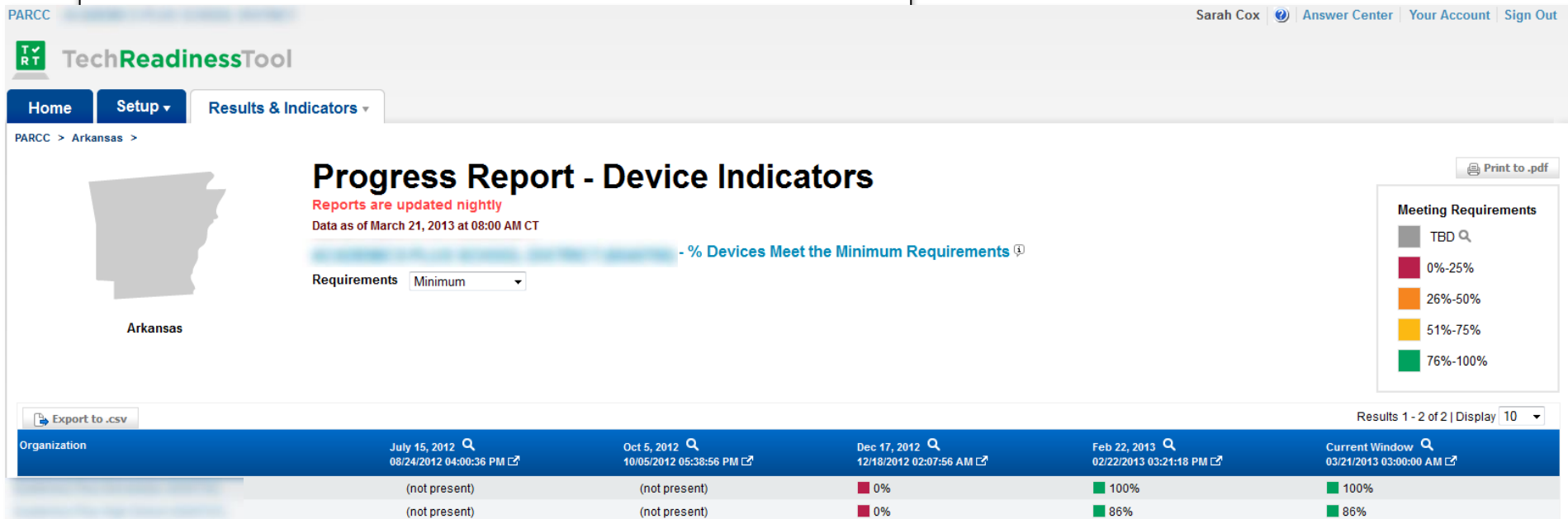
Results 1 - 2 of 2 | Display 10

Organization	Submission Status
	Yes
	(missing)

# Progress Reports

Provide a point-in-time view of results for each snapshot window.

## Progress Reports



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# PARCC Technology Guidance



# Minimum/Recommended Specifications

- **Minimum Specifications** - Computers meeting these guidelines can be considered as satisfying PARCC guidelines for 2014-2015 school year.
- **Recommended Specifications** - Computers meeting these guidelines can be expected to satisfy PARCC guidelines through the 2018-2019 school year.

# Bandwidth Recommendations

Minimum bandwidth requirements will be determined based on the final specifications of the PARCC assessment delivery platform and the level of multimedia and technology enhanced items in the final assessment design. PARCC will provide minimum specifications by October 2013.

	Minimum Specifications	Recommended Specifications
External Connection to the Internet	To be determined by October 2013	100 kbps per student or faster
Internal School Network	To be determined by October 2013	1000 kbps per student or faster



# Device Specifications

Desktops, laptops, netbooks (Windows, Mac, Chrome, Linux), thin client, and tablets (iPad, Windows, and Android) will be compatible devices provided they meet the established hardware, operating system, and networking specifications—and are able to meet the security requirements.

# Desktop, Laptop, Netbook and Thin Client Specifications

Desktop, Laptop, Netbook, and Thin Client <sup>1</sup> /VDI Computers		
Operating System	Minimum Specifications <sup>2</sup>	Recommended Specifications
Windows	<sup>3,4</sup> Windows XP – Service Pack 3	Windows 7 or newer
Mac OS	Mac OS 10.5	Mac OS 10.7 or newer
Linux	Ubuntu 9-10, Fedora 6	Linux: Ubuntu 11.10, Fedora 16 or newer
Chrome OS	Chrome OS 19	Chrome OS 19 or newer
Memory	512 MB of RAM	1 GB RAM or greater
Connectivity	Computers must be able to connect to the Internet via wired or wireless networks.	Computers must be able to connect to the Internet via wired or wireless networks.
Screen Size	9.5 inch screen size or larger	9.5 inch screen size or larger
Screen Resolution	1024 x 768 resolution <sup>5</sup> or better	1024 x 768 resolution <sup>5</sup> or better
Input Device Requirements	Keyboard	Keyboard
	Mouse or Touchpad or Touchscreen	Mouse or Touchpad or Touchscreen
	<p>The input device must allow students to select/deselect, drag, and highlight text, objects, and areas. The input device must allow students to enter letters, numbers, and symbols and shift, tab, return, delete, and backspace. To meet security guidelines, each Bluetooth/wireless keyboard must be configured to pair with only a single computer during assessment administration.</p> <p>Other assistive technologies may be needed for students requiring accommodations. PARCC will release Accessibility Guidelines and Accommodations Guidelines in June 2013.</p>	
Headphone/Earphone and Microphone Requirements	Headphones/Earphones	Headphones/Earphones
	Microphone	Microphone
	<p>Headphones/earphones are required for all students for all PARCC assessments. Some student accommodations may also require headphones/ earphones (e.g., text to speech).</p> <p>Microphones are required for all students taking the Speaking and Listening Assessment. Some student accommodations may also require microphones (e.g., speech to text, voice controls) for other parts of the PARCC assessments.</p>	



# Tablet Specifications

Tablets		
Operating System	Minimum Specifications	Recommended Specifications
Android	Android 4.0 (with 512 MB RAM or greater)	Android 4.0 or newer (with 1GB RAM or greater)
Apple iOS	iPad 2 running iOS 6 (with 512 MB RAM or greater)	iPad 2 or newer running iOS6 or newer (with 512 MB RAM or greater)
Windows	<sup>6</sup> Windows 8 (with 512 MB RAM or greater)	<sup>6</sup> Windows 8 or newer (with 1GB RAM or greater)
Memory	By operating system	By operating system
Connectivity	Computers must be able to connect to the Internet via wired or wireless networks.	Computers must be able to connect to the Internet via wired or wireless networks.
Screen Size	9.5 inch screen size or larger <sup>7</sup>	9.5 inch screen size or larger <sup>7</sup>
Screen Resolution	1024 x 768 resolution <sup>5</sup> or better	1024 x 768 resolution <sup>5</sup> or better
Input Device Requirements	Keyboard	Keyboard
	Touchscreen or Mouse	Touchscreen or Mouse
	<p>Due to the onscreen space occupied by a tablet's virtual keyboard, PARCC assessments will require external keyboards for test takers using tablets so as not to limit or obscure the view of test item content and related functionalities when text input is required. Research studies to be conducted by PARCC in Spring 2013 are intended to yield data on students' use of virtual versus external keyboards. PARCC will refine this guidance as needed based on these results.</p> <p>External keyboards must allow students to enter letters, numbers, and symbols and shift, tab, return, delete, and backspace. Tablet touchscreen interfaces can be used for student interactions with the assessments other than text input, including to select/deselect, drag, and highlight text, objects, and areas. To meet security guidelines, each Bluetooth/wireless keyboard must be configured to pair with only a single computer during assessment administration.</p> <p>Other assistive technologies may be needed for students requiring accommodations. PARCC will release Accessibility Guidelines and Accommodations Guidelines in June 2013.</p>	
Headphone/Earphone and Microphone Requirements	Headphones/Earphones	Headphones/Earphones
	Microphone	Microphone



# Security Requirements

Eligible devices of any type **must** have the administrative tools and capabilities to “lock down” the device to temporarily disable features, functionalities, and applications that could present a security risk during test administration. Examples include:

• Unrestricted Internet Access	• Cameras (still & video)
• Screen capture	• Email
• Instant messages/chat	• Bluetooth connections
• Application switching	• Printing

# Additional Information

<http://www.parconline.org/technology>





# Questions

# Contact Information

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